

AMENDMENTS TO THE CLAIMS

Please amend Claims 1, 4, 5, 8-11, 13-16, 18, 19, 22, 24, 25, 28 and 31; and add new Claim 34 as follows.

LISTING OF CLAIMS

1. (currently amended) A radio communication system comprising:

a base station and a terminal station provided as one and another communication stations,

wherein [[the]] one communication station is constructed to send each of a plurality of send packets to [[the]] another communication station in parallel through a plurality of channels as one packet unit, each of the plurality of channels being defined by a different frequency.

2. (original) The radio communication system as in claim 1,

wherein the one communication station is constructed to send, after accumulation of n send packets has been completed, each of n send packets through n channels to the another communication station as one packet unit, the n being a natural number equal to or more than 2.

3. (original) The radio communication system as in claim 2,

wherein the one communication station is constructed to send, after a predetermined period of time has elapsed before the accumulation of n send packets is completed, each of m send packets, accumulation of which has been completed in the

predetermined period, through m channels to the another communication station as one packet unit, the m being a natural number and smaller than n .

4. (currently amended) The radio communication system as in claim 1,
wherein the another communication station is constructed to send an ACK packet to the one communication station as independent data through the plurality of channels with respect to each of a plurality of send packets received from the one communication station, after the send packet is normally received from the one communication station, the ACK ~~packet~~ packets indicating that each of the send packet has been normally received.

5. (currently amended) The radio communication system as in claim 4,
wherein the one communication station is constructed to resend the send packet, which has not been normally received by the another communication station, to the another communication station after a predetermined period of time has elapsed before the ACK packet is received from the another communication station.

6. (original) The radio communication system as in claim 1,
wherein the another communication station is constructed to send an ACK packet to the one communication station as independent data through the plurality of channels with respect to each of the plurality of send packets received from the one communication station, after the send packet has been normally received from the one

communication station, the ACK packet indicating that the send packet has been normally received, and

wherein the another communication station is constructed to send a NACK packet to the one communication station as independent data through the plurality of channels after the send packet has not been normally received from the one communication station, the NACK packet indicating that the send packet has not been normally received.

7. (original) The radio communication system as in claim 6,

wherein the one communication station is constructed to resend the send packet, which has not been normally received by the another communication station, to the another communication station, after the NACK packet has been received from the another communication station.

8. (currently amended) A communication station for operating as a base station or a terminal station,

wherein the communication station is constructed to send each of a plurality of send packets in parallel through a plurality of channels to [[an]] another communication station as one packet unit, each of the plurality of channels being defined by a different frequency.

9. (currently amended) A communication station for operating as a ~~base station or~~ a terminal station,

wherein the communication station is constructed to receive a plurality of send packets through a plurality of channels from another communication station, each of the plurality of channels being defined by a different frequency, and

wherein the communication station is constructed to send an ACK packet to the another communication station as independent data through the plurality of channels with respect to each other the plurality of send packets received from the another communication station, after the send packet has been normally received from the another communication station, the ACK packet indicating that the send packet has been normally received.

10. (currently amended) The communication station as in claim 9,

wherein the communication station sends a NACK packet to the another communication station as independent data through the plurality of channels after the send packet has not been normally received from the another communication station, the NACK packet indicating that the send packet has not been normally received.

11. (currently amended) A radio communication system comprising:

a base station and a terminal station provided as one and ~~another~~ communication stations,

wherein ~~[[the]]~~ one communication station is constructed to send each of a plurality of beacons in parallel through ~~[[the]]~~ a plurality of channels to ~~[[the]]~~ another communication station as independent data through the plurality of channels, each of

the beacons corresponding to each of the plurality of channels, each of the plurality of channels being defined by a different frequency,

the another communication station is constructed to send each of a plurality of registration packets and a plurality of authentication packets in parallel through the plurality of channels to the one communication station as independent data through after each of the plurality of beacons has been received from the one communication station, and

the one communication station is constructed to send each of a plurality of packets indicating whether a registration is correct or not and each of a plurality of packets indicating whether an authentication is correct or not in parallel through the plurality of channels to the another communication station as independent data, each of such packets corresponding to each of the plurality of channels, after each of the plurality of registration packets and the plurality of authentication packets is received from the another communication station.

12. (original) The radio communication system as in claim 11,

wherein the one communication station is constructed to send the plurality of beacons to the another communication station synchronously,

wherein the another communication station is constructed to send the plurality of registration packets and the plurality of authentication packets to the one communication station synchronously, and

wherein the one communication station is constructed to send to the another communication station synchronously the plurality of packets indicating whether

the registration is correct or not and the plurality of packets indicating whether the authentication is correct or not.

13. (currently amended) A communication station for operating as a base station ~~or a terminal station~~,

wherein the communication station is constructed to send each of a plurality of beacons, which corresponds to each of a plurality of channels, in parallel through the plurality of channels to another communication station as independent data, each of the plurality of channels being defined by a different frequency, and

wherein the communication station is constructed to send each of a plurality of packets indicating whether a registration is correct or not and a plurality of packets indicating whether an authentication is correct or not, each of such packets corresponding to each of the plurality of channels, in parallel through the plurality of channels to ~~the~~ another communication station as independent data after each of the plurality of registration packets and the plurality of authentication packets is received from the another communication station.

14. (currently amended) A communication station for operating as a ~~base station or a terminal station~~,

wherein the communication station is constructed to send each of a plurality of registration packets and a plurality of authentication packets, which corresponds to each of a plurality of channels, in parallel through the plurality of channels to ~~the~~ another communication station as independent data after each of the

plurality of beacons is received from the another communication station, each of the plurality of channels being defined by a different frequency.

15. (currently amended) A radio communication system comprising:

a base station and a terminal station provided as one and ~~another~~ communication stations,

wherein ~~[[the]]~~ one communication station is constructed to send each of a plurality of beacons, which corresponds to each of a plurality of channels, in parallel through the plurality of channels to ~~[[the]]~~ another communication station as common data through the plurality of channels, each of the plurality of channels being defined by a different frequency,

wherein the another communication station is constructed to send each of a plurality of registration packets and a plurality of authentication packets, which corresponds to each of a plurality of channels, in parallel through the plurality of channels to the one communication station as the common data through the plurality of channels after each of the plurality of beacons has been received from the one communication station, and

wherein the one communication station is constructed to send each of a plurality of packets indicating whether a registration is correct or not and a plurality of packets indicating whether an authentication is correct or not, each of such packets corresponding to each of the plurality of channels, in parallel through the plurality of channels to the another communication station as independent data through the

plurality of channels after each of the plurality of registration packets and the plurality of authentication packets is received from the another communication station.

16. (currently amended) The radio communication system as in claim 15,
wherein the one communication station is constructed to send ~~[[a]]~~ the
plurality of beacons to the another communication station synchronously,
wherein the another communication station is constructed to send ~~[[a]]~~ the
plurality of registration packets and ~~[[a]]~~ the plurality of authentication packets to the one
communication station synchronously, and
wherein the one communication station is constructed to send the plurality
of packets indicating whether the registration is correct or not and the plurality of
packets indicating whether the authentication is correct or not to the another
communication station synchronously.

17. (original) The radio communication system as in claim 15,
wherein the one communication station is constructed to store in each of
the plurality of beacons a communication station identifier of the one communication
station individually designated every communication station, and send each of the
plurality of beacons, in which the communication station identifiers of the one
communication station is stored, to the another communication station, and
wherein the another communication station is constructed to recognize
that the communication station identifier of the one communication station stored in
each of a plurality of beacons received from the one communication station is common

to the plurality of channels, and sends each of the plurality of registration packets and the plurality of authentication packets to the one communication station.

18. (currently amended) The radio communication system as in claim 15,

wherein the another communication station is constructed to ~~stores~~ store in each of the plurality of registration packets and the plurality of authentication packets ~~the another~~ a communication station identifier individually designated every communication station, and sends each of the plurality of registration packets and the plurality of authentication packets, in which the ~~another~~ communication station identifiers are stored, to the one communication station, and

wherein the one communication station is constructed to recognize that ~~another~~ the communication station identifier stored in each of a plurality of registration packets and a plurality of authentication packets received from the another communication is common to the plurality of channels, and send each of the plurality of packets indicating whether the registration is correct or not, and the plurality of packets, of which the authentication is correct or not, to the another communication station.

19. (currently amended) A communication station for operating as a base station ~~or a terminal station~~,

wherein the communication station is constructed to send each of a plurality of beacons, which corresponds to each of a plurality of channels, in parallel through the plurality of channels to another communication station as common data, each of the plurality of channels being defined by a different frequency, and

wherein the communication station is constructed to send each of a plurality of packets indicating whether a registration is correct or not and a plurality of packets indicating whether an authentication is correct or not, each of such packets corresponding to each of the plurality of channels, in parallel through the plurality of channels to [[the]] another communication station as independent data after each of the plurality of registration packets and the plurality of authentication packets is received from the another communication station.

20. (original) The communication station as in claim 19,

wherein a communication station identifier of the communication station individually designated every communication station is stored in each of the plurality of beacons, and

wherein each of the plurality of beacons, in which the communication station identifiers of the one communication station are stored, is sent to the another communication station.

21. (original) The communication station as in claim 19,

wherein an identifier of the another communication station stored in each of a plurality of registration packets and a plurality of authentication packets, which are received from the another communication station, is recognized as being common among the plurality of channels, and

wherein each of the plurality of packets indicating whether the registration is correct or not and the plurality of packets indicating whether the authentication is correct or not is sent to the another communication station.

22. (currently amended) A communication station for operating as a ~~base station or a terminal station,~~

wherein the communication station is constructed to send each of a plurality of registration packets and a plurality of authentication packets, which correspond to each of plurality of channels, in parallel through the plurality of channels to [[the]] another communication station as common data through the plurality of channels after each of a plurality of beacons is received from the another communication station, each of the plurality of channels being defined by a different frequency.

23. (original) The communication station as in claim 22,
wherein a communication station identifier of the communication station individually designated every communication station is stored in each of the plurality of registration packets and the plurality of authentication packets, and each of the plurality of registration packets and the plurality of authentication packets, in which the communication station identifiers of the communication stations are stored, is sent to the another communication station.

24. (currently amended) The communication station as in claim 22,

wherein ~~[[the]]~~ a communication station identifier of the another communication station stored in each of a plurality of beacons, which are received from the another communication station, is recognized as being common among the plurality of channels, and

wherein each of the plurality of registration packets and the plurality of authentication packets is sent to ~~[[th]]~~ the another communication station.

25. (currently amended) A radio communication system comprising:

a base station and a terminal station provided as one and ~~another~~ communication stations,

wherein ~~[[the]]~~ one communication station is constructed to send a single beacon, which representatively corresponds to each of a plurality of channels, through a single exclusive channel to ~~[[the]]~~ another communication station, each of the plurality of channels being defined by a different frequency, and

wherein the another communication station is constructed to send a single registration packet and a single authentication packet, which representatively correspond to each of the plurality of channels, through the single exclusive channel to the one communication station after the single beacon has been received from the one communication station, and

wherein the one communication station is constructed to send a single packet indicating whether a registration is correct or not and a single packet indicating whether an authentication is correct or not, each of such packets representatively corresponding to each of the plurality of channels, through the single exclusive channel

to the another communication station, after the single registration packet and the single authentication packet are received from the another communication station.

26. (original) The radio communication system as in claim 25,

wherein the one communication station is constructed to store in the single beacon a communication station identifier of the one communication station individually designated every communication station, and send the single beacon, in which the communication station identifier of the one communication station is stored, to the another communication station, and

wherein the another communication station is constructed to recognize that the communication station identifier of the one communication station stored in the single beacon received from the one communication station is common to the plurality of channels, and send the single registration packet and the single authentication packet to the one communication station.

27. (original) The radio communication system as in claim 25,

wherein the another communication station is constructed to store in a single registration packet and a single authentication packet a communication station identifier of the another communication station individually designated every communication station, and send a single registration packet and a single authentication packet, in which the communication station identifier of the another communication station is stored, to the one communication station, and

wherein the one communication station is constructed to recognize that the communication station identifier of the another communication station stored in the single registration packet and the single authentication packet is common to the plurality of channels, and send a single packet indicating whether a registration is correct or not and a single packet indicating whether an authentication is correct or not, to the another communication station.

28. (currently amended) A communication station for operating as a base station ~~or a terminal station,~~

wherein the communication station is constructed to send a single beacon, which representatively corresponds to each of a plurality of channels, through a single exclusive channel to ~~[[the]]~~ another communication station, each of the plurality of channels being defined by a different frequency, and

wherein the communication station is constructed to send a single packet indicating whether a registration is correct or not and a single packet indicating whether an authentication is correct or not, each of such packets representatively corresponding to each of the plurality of channels, through the single exclusive channel to the another communication station after a single registration packet and a single authentication packet are received from the another communication station.

29. (original) The communication station as in claim 28,
wherein a communication station identifier of the communication station individually designated every communication station is stored in the single beacon, and

wherein the single beacon, in which the communication station identifier of the communication station is stored, is sent to the another communication station.

30. (original) The communication station as in claim 28,

wherein a communication station identifier of the another communication station stored in a single registration packet and a single authentication packet, which are received from the another communication station, is recognized as being common among the plurality of channels, and

wherein a single packet indicating a registration is correct or not and a single packet indicating whether an authentication is correct or not are sent to the another communication station.

31. (currently amended) A communication station for operating as a ~~base station or a terminal station,~~

wherein the communication station is constructed to send a single registration packet and a single authentication packet, which representatively correspond to each of a plurality of channels, through a single exclusive channel to another communication station after a single beacons is received from the another communication station, each of the plurality of channels being defined by a different frequency.

32. (original) The communication station as in claim 31,

wherein a communication station identifier of the communication station individually designated every communication station is stored in the single registration packet and the single authentication packet, and

wherein the single registration packet and the single authentication packet, in which the communication station identifier of the communication station is stored, are sent to the another communication station.

33. (original) The communication station as in claim 31,

wherein a communication station identifier of the another communication station stored in the single beacon, which is received from the another communication station, is recognized as being common among the plurality of channels, and

wherein the single registration packet and the single authentication packet are sent to the another communication station.

34. (new) The radio communication system as in claim 1, wherein the one communication station includes a buffer that stores the plurality of send packets, and a channel controller that sends as one packet unit each of the plurality of send packets to the another communication station.